



**ENGINEERING OPERATIONS COMMITTEE
MEETING MINUTES
SEPTEMBER 1, 2005 – 9:00 A.M.
MULTI-MODAL CONFERENCE ROOM**

<i>Present:</i>	L. Tibbits J. D. Culp T. Fudaly	J. Polasek M. Chaput C. Bleech	J. W. Reincke A. Clover
<i>Absent:</i>	J. Friend E. Burns	B. J. O'Brien	M. VanPortFleet
<i>Guests:</i>	J. Nekritz (FHWA) R. Kelley	S. Cook D. Juntunen	B. Krom C. Roberts

OLD BUSINESS

1. Approval of the Minutes of the August 4, 2005, Meeting – L. Tibbits

The minutes of the August 4, 2005, meeting were approved.

2. Traffic Signal Mast Arm Poles and Mast Arms (See July 7, 2005, Meeting Minutes, New Business, Item 4) – S. Cook

EOC will review the revised document for approval.

ACTION: Steve Cook will make minor changes to the document and resubmit it to EOC for review and approval.

NEW BUSINESS

1. Local Agency Aesthetic Cantilever Break-Away Light Standards – S. Cook

Local agencies request MDOT to accept aesthetic break-away light standards proposed for the state trunkline that match the décor of the surrounding environment, while enhancing the aesthetic lure of the community. Each local agency's décor needs may differ; therefore, each manufacture tends to cater to the décor needs of each requesting agency. This practice drives the volume of details defining the look of each agency's light system/pole/arm and break-away. It is recommended that MDOT establish a policy placing the responsibility on each local agency requesting an aesthetic cantilever break-away light standard to certify to MDOT that the proposed system meets MDOT's standards and/or is on the FHWA's approved products list. This will provide the local agencies with the knowledge of what is expected when highway lighting appurtenances are placed within our right-of-way.

ACTION: The Traffic and Safety Support Area will refer this item to the Barrier Advisory Committee for further study. Jim Culp as the lead on this review and will follow up with EOC.

2. Michigan Bridge Analysis Guide – R. Kelley and D. Juntunen

Michigan's Bridge Analysis Guide has been published since 1941 and is a key reference for local agencies and their consultants, and is needed to achieve uniformity of load posting and assure public safety. It was revised last in 1983, and rewritten in 2001 under contract with URS Corporation.

The portions of the Bridge Analysis Guide that were updated include: Load Rating Methodology, Controlling Vehicle Weights, New Reference Material, and Calculation Examples.

ACTION: EOC approves the revised Bridge Analysis Guide for distribution. Dave Juntunen and Bob Kelly will discuss the guide's content with county and municipal representatives.

3. **Pavement Selection, I-94 Eastbound Reconstruction: CS 11017, JN 60466 – B. Krom**

The reconstruction alternates considered were: Alternate 1 – a hot mix asphalt pavement (Equivalent Uniform Annual Cost [EUAC] \$65,628/directional mile), and Alternate 2 - jointed plain concrete pavement (EUAC \$48,815/directional mile).

A life cycle cost analysis was performed and Alternate 2 was approved based on having the lowest EUAC. The pavement design and cost analysis are as follows:

12"	Jointed Plain Concrete Pavement w/16' joint spacing (mainline)
	Freeway Shoulder Option
2"	Open-Graded Drainage Course (mainline)
4"1	Existing Open Graded Drainage Course (mainline & shoulders)
	Existing Geotextile Separator
10.0"	Existing Sand Subbase
6" dia.	Existing Open Graded Underdrain System
28"	Total Thickness

Present Value Initial Construction Costs	\$544,845/directional mile
Present Value Initial User Costs	\$244,069/directional mile
Present Value Maintenance Costs	\$73,785/directional mile
Equivalent Uniform Annual Cost	\$48,815/directional mile

(Signed Copy on File at C&T)

André Clover, Acting Secretary
Engineering Operations Committee

AC:kar

cc:	G. J. Jeff	S. Mortel	J. Steele (FHWA)
	K. Steudle	D. Jackson	R. Brenke (ACEC)
	L. Hank	W. Tansil	G. Bukoski (MITA)
	EOC Members	D. Wresinski	R. J. Risser, Jr. (MCPA)
	Region Engineers	C. Libiran	D. Hollingsworth (MCA)
	TSC Managers	R. J. Lippert, Jr.	J. Becsey (APAM)
	Assoc. Region Engineers	T. L. Nelson	M. Newman (MAA)
	T. Kratofil	T. Phillips	C. Mills (MPA)
	M. DeLong	K. Peters	J. Murner (MRPA)
	B. Kohrman	J. Ingle	G. Naeyaert (ATSSA)
	J. Shinn	C&T Staff	